

In the specification:

Please amend paragraph **[0010]** as follows.

**[0010]** (Amended) Fig. 11 ~~Fig. 10~~ illustrates a conventional DNA chip (organic molecule detecting semiconductor device) 10. This organic molecule detecting semiconductor device 10 has a photoelectric converter 12 formed on a silicon substrate 11. Recesses 16 are formed in a silicon oxide film 13 that is formed over photoelectric converter 12. DNA probes 21 are fixed in these recesses 16.